

# SEQUENCE LISTING

<110> ITO, Kikukatsu

<120> Plant Thermogenic Genes and Proteins

<130> 2003-1386A/WMC/00653

<140> NEW

<141> September 29, 2003

<150> 10/009,962

<151> 2002-01-23

<150> PCT/JP00/03806

<151> 2000-06-12

<150> JP11-167439

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<170> PatentIn Ver. 2.0

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<301> Ito, K.

<302> Isolation of two distinct cold-inducible cDNAs encoding plant uncoupling proteins from the spadix of skunk cabbage (Symplocarpus foetidus)

<303> Plant Sci.

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<301> Ito, K.

<302> Isolation of two distinct cold-inducible cDNAs encoding plant uncoupling proteins from the spadix of skunk cabbage (Symplocarpus foetidus)

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 35 40 45  
 Ala Val Gln Thr Ala Arg Leu Val Gln Tyr Arg Gly Val Leu Gly Thr  
 50 55 60  
 Ile Leu Thr Met Val Arg Thr Glu Gly Pro Cys Ser Pro Tyr Asn Gly  
 65 70 75 80  
 Leu Val Ala Gly Leu Gln Arg Gln Met Ser Phe Ala Ser Ile Arg Ile  
 85 90 95  
 Gly Leu Tyr Asp Ser Val Lys Gln Val Tyr Thr Pro Lys Gly Ala Asp  
 100 105 110  
 Asn Ser Ser Leu Thr Thr Arg Ile Leu Ala Gly Cys Thr Thr Gly Ala  
 115 120 125  
 Met Ala Val Thr Cys Ala Gln Pro Thr Asp Val Val Lys Val Arg Phe  
 130 135 140  
 Gln Ala Ser Ile His Leu Gly Pro Ser Arg Ser Asp Arg Lys Tyr Ser  
 145 150 155 160  
 Gly Thr Met Asp Ala Tyr Arg Thr Ile Ala Arg Glu Glu Gly Val Arg  
 165 170 175  
 Gly Leu Trp Lys Gly Thr Leu Pro Asn Ile Met Arg Asn Ala Ile Val  
 180 185 190  
 Asn Cys Ala Glu Val Val Thr Tyr Asp Ile Leu Lys Glu Lys Leu Leu  
 195 200 205  
 Asp Tyr His Leu Leu Thr Asp Asn Phe Pro Cys His Phe Val Ser Ala  
 210 215 220  
 Phe Gly Ala Gly Phe Cys Ala Thr Val Val Ala Ser Pro Val Asp Val  
 225 230 235 240  
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Val Lys Thr Arg Tyr Met Asn Ser Pro Gly Gln Tyr Phe Ser Pro  
245 250

Leu Asp Cys Met Ile Lys Met Val Ala Gln Glu Gly Pro Thr Ala Phe  
260 265 270

Tyr Lys Gly Phe Thr Pro Ser Phe Leu Arg Leu Gly Ser Trp Asn Val  
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Val Met Phe Val Thr Tyr Glu Gln Leu Lys Arg Ala Leu Met Lys Val  
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Gln Met Leu Arg Glu Ser Pro Phe  
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